

DNA ENCODING A HUMAN MELANIN CONCENTRATING HORMONE
RECEPTOR (MCH1) AND USES THEREOF

Abstract of the Disclosure

5 This invention provides an isolated nucleic acid encoding
a human MCH1 receptor, a purified human MCH1 receptor,
vectors comprising isolated nucleic acid encoding a human
MCH1 receptor, cells comprising such vectors, antibodies
10 directed to a human MCH1 receptor, nucleic acid probes
useful for detecting nucleic acid encoding human MCH1
receptors, antisense oligonucleotides complementary to
unique sequences of nucleic acid encoding human MCH1
receptors, transgenic, nonhuman animals which express DNA
15 encoding a normal or mutant human MCH1 receptor, methods
of isolating a human MCH1 receptor, methods of treating an
abnormality that is linked to the activity of a human MCH1
receptor, as well as methods of determining binding of
compounds to mammalian MCH1 receptors. This invention
20 provides a method of modifying the feeding behavior of a
subject which comprises administering to the subject an
amount of an MCH1 antagonist effective to decrease the
body mass of the subject and/or decrease the consumption
of food by the subject. This invention further provides a
25 method of treating a subject suffering from depression
and/or anxiety which comprises administering to the
subject an amount of an MCH1 antagonist effective to treat
the subject's depression and/or anxiety.